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# Supplementary files

**Missed opportunities in full immunization coverage: findings from low- and lower-middle-income countries.** María Clara Restrepo-Méndez, Aluísio J. D. Barros, Kerry L. M. Wong, Hope L. Johnson, George Pariyo, Fernando C. Wehrmeister and Cesar G. Victora

## Supplementary File 1

**Data sources used in the analyses, showing stratification variables available in each survey**

Country	Survey year	Source	ANC	SBA	VitA	PNC	HVC	ITN
1. Cameroon	2011	DHS	✓	✓	✓	✓	✓	✓
2. CAR	2010	MICS	✓	✓	✓	✗	✓	✓
3. Chad	2004	DHS	✓	✓	✓	✓	✓	✗
4. Côte d'Ivoire	2011	DHS	✓	✓	✓	✓	✓	✓
5. DR Congo	2010	MICS	✓	✓	✓	✗	✓	✓
6. Ethiopia	2011	DHS	✓	✓	✓	✓	✓	✗
7. Guinea	2005	DHS	✓	✓	✓	✓	✓	✓
8. Haiti	2012	DHS	✓	✓	✓	✓	✓	✓
9. Liberia	2007	DHS	✓	✓	✓	✓	✓	✗
10. Mauritania	2007	MICS	*	✓	✓	✗	✓	✗
11. Nigeria	2011	MICS	✓	✓	✓	✗	✓	✓
12. Somalia	2006	MICS	✓	✓	✓	✗	✓	✗
13. Timor-Leste	2009	DHS	✓	✓	✓	✓	✓	✓
14. Uganda	2011	DHS	✓	✓	✓	✓	✓	✓
15. Afghanistan			No data available					
16. South Sudan								
17. Papua New Guinea								

\* Information on ANC limited to having at least one visit during pregnancy.

## Supplementary File 2

### Coverage of full immunization and coverage of individual vaccines according to country

Country	UN region	Source	Survey year	Sample	Full immunization coverage			Individual vaccine coverage			
					Fully immunized (N)	Unweighted FIC %	Weighted FIC %	Weighted DPT %	Weighted BCG %	Weighted Measles %	Weighted Polio %
Timor-Leste	East Asia & Pacific	DHS	2009	1805	988	54.8	52.6	66.4	76.7	67.8	56.2
Ethiopia	Eastern & Southern Africa	DHS	2011	1927	565	29.3	24.6	37.0	66.3	55.7	45.1
Somalia	Eastern & Southern Africa	MICS	2006	1096	113	10.3	11.6	14.1	29.7	28.8	37.5
Uganda	Eastern & Southern Africa	DHS	2011	1427	769	53.9	52.5	72.2	93.7	75.8	63.9
Haiti	Latin America & Caribbean	DHS	2012	1370	640	46.7	45.8	62.8	82.7	65.1	59.6
Cameroon	West & Central Africa	DHS	2011	2286	1241	54.3	53.6	68.8	87.1	70.6	70.5
CAR	West & Central Africa	MICS	2010	2015	324	16.1	17.3	32.6	73.6	55.6	45.1
Chad	West & Central Africa	DHS	2004	901	145	16.1	11.4	20.4	40.2	22.8	35.6
Cote d'Ivoire	West & Central Africa	DHS	2011	1417	716	50.5	50.5	63.8	83.4	64.5	69.2
DR Congo	West & Central Africa	MICS	2010	2318	1122	48.4	49.8	62.6	85.5	72.2	59.9
Guinea	West & Central Africa	DHS	2005	1115	430	38.6	37.4	51.4	79.4	50.2	50.7
Liberia	West & Central Africa	DHS	2007	996	352	35.3	39.1	50.5	77.1	63.0	49.6
Mauritania	West & Central Africa	MICS	2007	1677	651	38.8	35.3	55.5	84.8	74.4	45.4
Nigeria	West & Central Africa	MICS	2011	4755	1458	30.7	33.2	44.8	62.2	55.6	48.6

## Supplementary File 3

### Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries

#### Cameroon, 2011

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	264	32.4	54.1	38.7	47.5	24.2	16.9, 31.4	1.0	-	<0.001
	1-3	531	62.2	87.6	64.7	68.8	47.5	42.1, 52.9	2.0	1.4, 2.7	
	>3	1359	79.4	94.4	79.6	76.5	62.7	59.3, 66.0	2.6	1.9, 3.5	
SBA	No	703	45.0	69.5	49.5	59.4	32.5	27.3, 37.7	1.0	-	<0.001
	Yes	1467	80.6	95.8	80.8	75.9	64.2	60.9, 67.4	2.0	1.7, 2.3	
VITA	No	948	64.1	84.2	63.5	64.4	47.9	43.4, 52.3	1.0	-	0.001
	Yes	1338	72.0	89.0	75.4	74.7	57.6	53.4, 61.8	1.2	1.1, 1.3	
PNC	No	1292	61.1	82.1	64.7	66.8	46.7	42.4, 51.0	1.0	-	<0.001
	Yes	870	79.8	94.1	78.5	75.7	63.6	59.8, 67.3	1.4	1.2, 1.5	
HVC	No	352	16.5	43.0	30.7	39.1	8.4	5.3, 11.5	1.0	-	<0.001
	Yes	1927	79.5	96.2	78.8	77.1	62.9	59.8, 65.9	7.5	5.2, 10.8	
ITN	No	1965	67.2	86.4	69.2	69.2	51.9	48.3, 55.4	1.0	-	<0.001
	Yes	321	79.8	91.5	80.1	79.3	65.5	59.0, 72.0	1.3	1.1, 1.4	

#### Central African Republic, 2010

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	409	14.0	47.1	35.0	38.6	7.5	3.8, 11.2	1.0	-	<0.001
	1-3	702	29.1	74.8	53.5	40.9	14.3	10.7, 17.8	1.9	1.2, 3.2	
	>3	728	43.7	86.0	66.5	52.8	23.5	17.9, 29.0	3.1	1.8, 5.5	
SBA	No	936	21.9	63.8	48.0	39.2	11.7	8.5, 14.9	1.0	-	<0.001
	Yes	1042	42.0	82.3	61.6	50.5	21.9	17.5, 26.2	1.9	1.3, 2.6	
VITA	No	413	18.0	49.6	29.8	35.9	7.3	3.9, 10.7	1.0	-	<0.001
	Yes	1602	36.7	80.5	63.0	47.7	20.1	16.6, 23.6	2.8	1.7, 4.5	
PNC	No	No data available									
HVC	No	389	4.3	38.2	31.3	31.4	1.8	0.1, 3.5	1.0	-	<0.001
	Yes	1626	39.1	81.8	61.2	48.2	20.8	17.5, 24.1	11.6	4.5, 30.1	
ITN	No	1271	33.8	75.5	56.7	45.4	17.9	14.4, 21.3	1.0	-	0.493
	Yes	744	30.6	70.6	54	44.6	16.3	12.4, 20.3	0.9	0.7, 1.2	

# Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries

Chad, 2014

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	390	6.2	19.0	11.3	23.2	2.7	1.0, 4.5	1.0	-	<0.001
	1-3	246	33.7	61.4	37.7	45.5	23.0	15.9, 30.0	8.5	4.5, 15.8	
	>3	236	41.0	71.0	35.1	55.6	20.5	12.6, 28.4	7.5	3.6, 15.7	
SBA	No	635	16.3	34.4	19.5	33.1	9.5	6.2, 12.8	1.0	-	0.002
	Yes	242	40.8	69.5	40.3	47.0	21.1	13.8, 28.4	2.2	1.4, 3.5	
VITA	No	497	17.0	35.3	17.5	33.0	9.5	6.1, 12.8	1.0	-	0.017
	Yes	404	27.0	49.8	33.2	40.7	15.3	10.3, 20.2	1.6	1.1, 2.3	
PNC	No	774	18.4	37.2	20.8	34.2	10.3	7.0, 13.6	1.0	-	0.020
	Yes	102	39.6	69.7	45.2	48.0	22.8	12.7, 32.9	2.2	1.3, 3.7	
HVC	No	450	7.4	15.5	6.8	26.0	1.7	0.3, 3.1	1.0	-	<0.001
	Yes	448	40.7	78.8	47.9	50.2	26.7	19.8, 33.5	16.1	6.6, 39.1	
ITN	No	No data available									
	Yes										

Cote D'Ivoire, 2011

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	104	13.9	27.2	29.3	35.7	8.9	3.1, 14.7	1.0	-	<0.001
	1-3	654	59.4	83.0	56.9	67.3	45.1	39.4, 50.8	5.1	2.7, 9.6	
	>3	612	76.8	92.6	78.2	77.3	63.3	57.9, 68.6	7.1	3.8, 13.5	
SBA	No	545	44.9	68.7	48.6	58.8	33.1	27.6, 38.6	1.0	-	<0.001
	Yes	831	75.5	92.3	74.1	75.8	61.1	56.3, 66.0	1.8	1.6, 2.2	
VITA	No	473	46.5	70.8	45.9	54.5	32.7	26.6, 38.8	1.0	-	<0.001
	Yes	944	73.3	90.2	74.6	77.3	60.3	55.5, 65.1	1.8	1.5, 2.2	
PNC	No	356	47.1	70.2	51.0	59.3	35.8	28.8, 42.8	1.0	-	<0.001
	Yes	1011	70.5	88.4	69.7	73.1	56.3	51.1, 61.4	1.6	1.3, 1.9	
HVC	No	97	7.1	17.7	22.1	30.5	1.2	0.0, 3.5	NA (1)		
	Yes	1319	68.4	88.6	67.9	72.3	54.5	50.1, 58.8			
ITN	No	800	63.1	84.1	66.1	68.3	50.8	45.3, 56.3	1.0	-	0.861
	Yes	617	64.8	82.3	62.2	70.5	50.2	45.0, 55.4	1.0	0.9, 1.1	

NA (1) Insufficient sample size in one of the categories

# Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries

## Democratic Republic of the Congo, 2010

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	260	30.9	53.0	42.8	36.9	26.6	18.4, 34.8	1.0	-	<0.001
	1-3	935	64.0	87.7	71.8	61.8	52.3	46.9, 57.8	2.0	1.5, 2.7	
	>3	982	68.8	91.6	78.7	64.2	53.2	47.7, 58.7	2.0	1.5, 2.7	
SBA	No	596	47.6	69.8	59.6	51.7	40.3	33.3, 47.4	1.0	-	<0.001
	Yes	1691	68.6	92.0	77.3	63.3	53.7	49.2, 58.2	1.3	1.1, 1.6	
VITA	No	438	26.6	51.9	29.4	24.3	15.9	11.2, 20.6	1.0	-	<0.001
	Yes	1880	69.9	92.2	80.8	67.0	56.6	52.5, 60.8	3.6	2.7, 4.8	
PNC	No	No data available									
	Yes										
HVC	No	580	14.4	45.5	34.0	19.6	9.3	5.0, 13.6	1.0	-	<0.001
	Yes	1738	77.1	97.5	83.7	72.0	62.0	58.1, 66.0	6.7	4.2, 10.6	
ITN	No	1347	57.4	83.2	69.0	56.6	44.6	40.1, 49.2	1.0	-	<0.001
	Yes	971	70.2	88.9	76.9	64.7	57.4	52.2, 62.6	1.3	1.2, 1.4	

## Ethiopia, 2011

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	991	24.3	53.1	42.7	33.7	14.8	11.0, 18.5	1.0	-	<0.001
	1-3	456	48.8	79.9	70.5	55.5	33.4	27.2, 39.7	2.3	1.7, 3.0	
	>3	398	60.4	88.2	79.5	65.2	42.1	34.6, 49.6	2.9	2.1, 3.8	
SBA	No	1546	33.4	63.4	53.2	42.6	21.1	17.5, 24.7	1.0	-	<0.001
	Yes	305	62.6	86.7	79.8	61.9	48.0	38.8, 57.3	2.3	1.8, 2.9	
VITA	No	820	22.9	53.9	40.5	31.8	14.4	10.5, 18.3	1.0	-	<0.001
	Yes	1107	48.7	76.6	68.3	56.1	32.9	28.3, 37.6	2.3	1.8, 3.0	
PNC	No	1657	34.8	64.6	54.4	43.6	22.4	18.8, 26.0	1.0	-	<0.001
	Yes	191	68.6	89.9	85.4	64.8	53.3	41.1, 65.6	2.4	1.8, 3.1	
HVC	No	726	9.8	37.8	31.8	23.0	5.2	2.3, 8.0	1.0	-	<0.001
	Yes	1197	55.8	85.9	72.1	60.3	37.9	33.3, 42.5	7.3	4.2, 12.7	
ITN	No	No data available									
	Yes										

## Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries

### Guinea, 2005

							Full immunization coverage				
Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	173	9.5	27.4	10.0	13.2	5.1	1.4, 8.9	1.0	-	<0.001
	1-3	315	50.2	80.7	49.9	50.1	37.6	31.1, 44.1	7.3	3.5, 15.3	
	>3	555	64.6	93.4	63.4	62.3	47.2	41.9, 52.5	9.2	4.5, 18.8	
SBA	No	750	43.4	71.9	45.3	45.1	32.8	27.9, 37.8	1.0	-	<0.001
	Yes	339	68.4	95.5	62.6	62.7	48.4	41.4, 55.4	1.5	1.2, 1.8	
VITA	No	331	31.2	57.8	25.6	30.5	17.5	12.4, 22.6	1.0	-	<0.001
	Yes	784	59.6	88.2	60.1	58.8	45.4	40.4, 50.4	2.6	2.0, 3.4	
PNC	No	872	47.8	75.7	46.0	47.5	34.3	29.6, 39.0	1.0	-	<0.001
	Yes	211	63.9	93.1	68.3	62.2	49.9	42.7, 57.1	1.5	1.2, 1.7	
HVC	No	250	9.0	33.6	11.9	15.1	4.2	1.7, 6.6	1.0	-	<0.001
	Yes	864	64.0	93.1	61.6	61.3	47.2	42.8, 51.7	11.3	6.3, 20.2	
ITN	No	1105	51.2	79.3	50.2	50.7	37.5	33.0, 42.0	NA (1)		
	Yes	10	70.8	100.0	55.5	54.0	29.8	0.0, 70.2			

NA (1) Insufficient sample size in one of the categories

### Haiti, 2012

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	124	34.2	54.9	47.0	30.6	21.9	13.5, 30.4	1.0	-	<0.001
	1-3	306	52.6	79.3	56.0	52.5	37.6	30.0, 45.1	1.7	1.2, 2.5	
	>3	870	70.7	88.4	71.1	66.5	51.7	47.5, 55.9	2.4	1.6, 3.4	
SBA	No	827	57.1	77.5	65.0	55.4	42.2	37.0, 47.4	1.0	-	0.024
	Yes	475	72.3	92.0	65.6	66.8	51.1	45.3, 56.8	1.2	1.0, 1.4	
VITA	No	503	42.1	73.1	37.8	39.1	23.5	18.7, 28.4	1.0	-	<0.001
	Yes	867	75.7	88.8	82.3	72.5	59.7	55.5, 63.9	2.5	2.1, 3.1	
PNC	No	923	59.5	79.3	64.5	58.1	44.0	39.3, 48.8	1.0	-	0.220
	Yes	374	70.6	91.9	66.8	63.2	48.8	42.5, 55.1	1.1	0.9, 1.3	
HVC	No	149	13.8	45.0	30.8	11.4	9.2	3.3, 15.0	1.0	-	<0.001
	Yes	1219	69.1	87.7	69.6	65.8	50.5	46.7, 54.3	5.5	2.9, 10.3	
ITN	No	1156	61.1	81.1	63.7	58.1	43.4	39.1, 47.6	1.0	-	0.002
	Yes	214	72.1	91.9	73.1	67.8	59.0	50.7, 67.3	1.4	1.1, 1.6	



# Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries

## Liberia, 2007

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	36	10.1	41.2	30.3	11.1	9.3	0.0, 22.6	1.0	-	<0.001
	1-3	199	26.4	52.6	39.2	33.2	22.6	13.9, 31.3	2.4	0.6, 9.3	
	>3	604	58.7	86.4	72.0	55.1	44.9	39.6, 50.2	4.8	1.3, 18.4	
SBA	No	478	37.6	63.9	51.3	40.0	28.8	21.9, 35.7	1.0	-	<0.001
	Yes	475	63.7	91.2	74.6	59.2	49.3	43.5, 55.0	1.7	1.3, 2.2	
VITA	No	483	40.5	68.2	51.5	40.0	29.9	23.3, 36.6	1.0	-	<0.001
	Yes	513	61.2	86.6	75.4	59.9	49.0	42.2, 55.7	1.6	1.3, 2.1	
PNC	No	372	33.9	61.4	48.4	36.0	25.7	18.7, 32.7	1.0	-	<0.001
	Yes	574	60.7	87.3	71.7	57.9	47.0	41.5, 52.6	1.8	1.4, 2.4	
HVC	No	239	7.9	25.2	25.8	13.9	3.4	0.5, 6.3	1.0	-	<0.001
	Yes	754	62.9	92.2	73.9	60.0	49.5	44.6, 54.3	14.6	6.3, 34.0	
ITN	No	No data available									
	Yes										

## Mauritania, 2007

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	480	50.2	75.9	67.3	45.9	37.2	32.0, 42.4	1.0	-	0.459
	1+	1128	58.9	89.3	77.9	45.3	35.1	31.4, 38.7	0.9	0.8, 1.1	
SBA	No	733	53.9	79.2	70.3	49.1	39.5	35.1, 43.9	1.0	-	0.016
	Yes	875	58.2	90.2	78.2	42.6	32.6	28.5, 36.7	0.8	0.7, 1.0	
VITA	No	671	46.7	81.8	68.5	38.5	27.4	23.4, 31.5	1.0	-	<0.001
	Yes	1006	62.5	87.2	79.0	50.7	41.5	37.7, 45.4	1.5	1.3, 1.8	
PNC	No	No data available									
	Yes										
HVC	No	222	20.1	44.3	35.1	10.7	4.5	1.8, 7.2	1.0	-	<0.001
	Yes	1455	61.4	91.5	80.9	51.1	40.4	36.8, 44.0	9.0	4.9, 16.5	
ITN	No	No data available									
	Yes										

# Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries

## Nigeria, 2007

							Full immunization coverage				
Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	FIC %	95% CI	Prevalence ratio	95%CI	p
ANC	0	1427	10.3	23.6	21.0	27.2	7.0	5.0, 8.9	1.0	-	<0.001
	1-3	483	39.8	59.3	54.8	48.7	29.6	24.1, 35.1	4.3	3.1, 5.9	
	>3	2303	64.5	83.3	73.6	61.3	49.1	45.5, 52.7	7.1	5.3, 9.4	
SBA	No	2733	22.9	40.0	35.4	37.1	16.7	14.5, 18.8	1.0	-	<0.001
	Yes	1923	69.6	87.4	78.6	62.0	52.3	48.7, 56.0	3.1	2.7, 3.6	
VITA	No	1755	22.9	35.5	29.8	31.4	17.3	14.1, 20.5	1.0	-	<0.001
	Yes	3000	56.9	76.9	69.9	58.1	42.0	38.9, 45.1	2.4	2.0, 2.9	
PNC	No	No data available									
	Yes										
HVC	No	2184	6.4	21.7	20.7	25.5	3.1	2.1, 4.0	1.0	-	<0.001
	Yes	2571	73.6	92.4	81.8	65.9	55.8	52.8, 58.7	18.3	13.2, 25.3	
ITN	No	3869	44.4	61.1	54.4	48.1	32.8	29.9, 35.7	1.0	-	0.454
	Yes	886	46.9	67.0	61.2	51.1	35.0	29.9, 40.0	1.1	0.9, 1.3	

## Somalia, 2006

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	646	9.4	21.1	22.7	31.4	8.4	5.5, 11.4	1.0	-	<0.001
	1-3	272	24.3	47.5	41.7	51.1	19.7	13.4, 26.0	2.3	1.6, 3.5	
	>3	12	42.4	66.1	58.2	41.6	31.1	0.0, 66.9	NA (1)	NA (1)	
SBA	No	690	9.2	22.1	23.2	30.1	7.5	4.8, 10.3	1.0	-	<0.001
	Yes	367	24.3	44.9	41.1	52.5	20.9	14.9, 26.8	2.8	1.9, 4.0	
VITA	No	855	11.2	25.1	24.2	34.1	9.2	6.3, 12.1	1.0	-	0.002
	Yes	241	23.6	45.2	44.2	49.0	19.7	12.8, 26.6	2.1	1.4, 3.1	
PNC	No	No data available									
	Yes										
HVC	No	802	2.5	11.6	15.2	27.3	1.3	0.5, 2.1	1.0	-	<0.001
	Yes	294	43.8	76.3	63.7	63.8	38.1	30.2, 46.0	29.3	15.7, 54.6	
ITN	No	No data available									
	Yes										

NA (1) Insufficient sample size in one of the categories

**Coverage (%) and prevalence ratio of full immunization according to health interventions for 14 selected countries**

**Uganda, 2011**

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	43	41.6	68.7	50.8	42.9	33.3	12.2, 54.3	1.0	-	0.029
	1-3	594	69.6	94.3	73.4	63.0	50.7	45.9, 55.5	1.5	0.8, 2.8	
	>3	665	77.1	95.6	79.7	67.7	57.2	52.2, 62.2	1.7	0.9, 3.1	
SBA	No	514	67.6	90.4	72.0	61.0	50.2	45.0, 55.5	1.0	-	0.139
	Yes	811	75.2	96.1	78.2	66.5	54.9	50.5, 59.4	1.1	1.0, 1.2	
VITA	No	508	57.6	87.1	61.1	49.4	35.0	30.2, 39.7	1.0	-	<0.001
	Yes	919	80.5	97.4	84.0	72.1	62.4	58.3, 66.6	1.8	1.5, 2.1	
PNC	No	848	68.8	92.0	73.0	62.4	50.0	45.5, 54.4	1.0	-	0.011
	Yes	470	78.6	97.2	81.0	67.8	58.6	53.1, 64.1	1.2	1.0, 1.3	
HVC	No	170	42.4	71.1	50.5	20.3	10.6	4.7, 16.5	1.0	-	<0.001
	Yes	1256	76.0	96.6	79.0	69.5	57.8	54.2, 61.5	5.5	3.2, 9.5	
ITN	No	739	65.9	92.0	72.1	57.9	47.1	42.7, 51.5	1.0	-	<0.001
	Yes	688	78.9	95.5	79.6	70.2	58.3	53.3, 63.2	1.2	1.1, 1.4	

**Timor-Leste, 2009**

Intervention	Level	N	DPT %	BCG %	Measles %	Polio %	Full immunization coverage				
							FIC %	95%CI	Prevalence ratio	95%CI	p
ANC	0	200	23.2	33.1	25.9	23.6	20.1	13.8, 26.5	1.0	-	<0.001
	1-3	511	65.8	79.3	68.1	56.3	52.5	47.1, 57.9	2.6	1.9, 3.6	
	>3	953	76.2	85.1	76.6	63.6	60.0	55.6, 64.4	3.0	2.2, 4.1	
SBA	No	1185	60.9	70.9	62.2	52.8	48.8	44.7, 52.9	1.0	-	<0.001
	Yes	490	79.0	90.3	80.3	64.5	61.5	55.8, 67.3	1.3	1.1, 1.4	
VITA	No	757	49.1	58.8	48.0	39.6	34.9	30.3, 39.5	1.0	-	<0.001
	Yes	1046	81.3	92.1	84.7	70.4	67.7	63.6, 71.8	1.9	1.7, 2.2	
PNC	No	1315	62.2	72.1	63.7	53.8	50.0	46.0, 54.0	1.0	-	<0.001
	Yes	355	81.1	93.8	81.8	65.7	62.5	56.1, 68.9	1.3	1.1, 1.4	
HVC	No	542	27.5	37.9	32.7	14.7	13.5	9.9, 17.1	1.0	-	<0.001
	Yes	1261	84.5	94.7	84.1	75.4	70.7	67.0, 74.4	5.2	4.0, 6.8	
ITN	No	1010	58.2	69.3	60.1	50.1	46.3	42.1, 50.4	1.0	-	<0.001
	Yes	793	77.1	86.4	77.8	64.0	60.8	55.7, 65.8	1.3	1.2, 1.5	

